

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

**Complete if Known**

Application Number	10/550,668
Filing Date	September 26, 2005
First Named Inventor	Hangartner et al.
Art Unit	2882
Examiner Name	Hoon Song
Attorney Docket Number	WRU 0239 PA/40878.305

Sheet	1	of	2
-------	---	----	---

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/H.S./		US- Des. 406,892	03/16/1999	Warren	
		US- 5,187,731	02/16/1993	Shimura	
		US- 5,544,157	08/06/1996	Wenstrup et al.	
		US- 5,784,433	07/21/1998	Higa	
		US- 5,852,647	12/22/1998	Schick et al.	
		US- 5,915,036	06/22/1999	Grunkin et al.	
		US- 6,205,348 B1	03/20/2001	Giger et al.	
		US- 6,320,931 B1	11/20/2001	Arnold	
		US- 6,324,252 B2	11/27/2001	Siffert et al.	
		US- 6,343,875 B1	02/05/2002	Eppinger et al.	
		US- 6,381,301 B1	04/30/2002	Massie	
		US- 2002/0150205 A1	10/17/2002	Adriaansz	
		US- 2002/0154733 A1	10/24/2002	Massie	
/H.S./		US- Des. 407,158	03/23/1999	Rubinstein	
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature	/Hoon Song/	Date Considered	01/10/2008
-----------------------	-------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/550,668		
		Filing Date	September 26, 2005		
		First Named Inventor	Hangartner et al.		
		Art Unit	2882		
		Examiner Name	Hoon Song		
Sheet	2	of	2	Attorney Docket Number	WRU 0239 PA/40878.305

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	/H.S./	Investigator Abstracts Biomedical Engineering, Biomedical Engineering Research Grants April 1999, Theresa Atkinson, Ph. D. Assistant Professor, Department of Mechanical Engineering Wayne State University (RG-98-0530) Detroit, MI.	✓
Not included		Yang et al., Radiographic Absorptionmetry for Bone Mineral Measurement of the Phalanges: Precision and Accuracy Study. September 1994, 192:857-859	
	/H.S./	Michaeli et al., A New X-Ray Based Osteoporosis Screening Tool Provides Accurate and Precise Assessment of Phalanx Bone Mineral Content, Journal of Clinical Densitometry vol. 2, no. 1 23-30 Winter 1998.	✓
	/H.S./	Tambe et al., Analysis of dental X-ray images, "Extraction of trabecu from panoramic X-ray images of gnathic bone," 2001 General Conference, The Institute of Electronics, Information and	✓
Not included		Communication Engineers.	
	/H.S./	Homer et al., Mandibular bone mineral density as a predictor of skeletal osteoporosis, 1996 The British Journal of Radiology Vol. 69. No. 827.	
	/H.S./	Colbert et al., Radiographic Absorptionmetry (Photodensitometry), Survey of Phalangeal Bone Mineral Density and Bone Sizes in a Sample Population of 50 Hemodialysis Patients, Internal	
Not included		Report, Radiological Research Laboratory, Yellow Springs, Ohio, December 5, 1978.	
	/H.S./	MSc Project: Detection of Osteoporosis from Dental Radiographs. The University of Manchester copyright 2001.	
Not included		Seq # 126 - Epidemiology and Quality of Life Thursday, March 7, 2002 San Diego Convention Center Exhibit Hall C.	

Examiner Signature	/Hoon Song/	Date Considered	01/10/2008
--------------------	-------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.  
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/550,668
Filing Date	September 26, 2005
First Named Inventor	Thomas N. Hangartner et al.
Art Unit	2882
Examiner Name	Hoon Song
Attorney Docket Number	WRU 0239 PA/40878.305

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/H.S./		US- 2002/0067798 A1	06-06-2002	Lang	
		US- 2003/0015208 A1	01-23-2003	Lang et al.	
		US- 2003/0063704 A1	04-03-2003	Lang	
		US- 2003/0112921 A1	06-19-2003	Lang et al.	
		US- 6,690,761 B2	02-10-2004	Lang et al.	
/H.S./		US- 6,904,123 B2	06-07-2005	Lang	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature	/Hoon Song/	Date Considered	01/10/2008
--------------------	-------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.